Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-25-12** **Date: 29-06-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward No.8, Kodigehalli.
Agency	:	Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-12 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-06-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.0	–
2	Finess by Air permeablity method (m^2/kg,Min)	278.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time (minutes)	175 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division,
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-25-12** **Date: 24-07-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward No.8, Kodigehalli.
Agency	:	Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-12 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-06-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	30.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-25-12** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward No.8, Kodigehalli.
Agency	:	Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-12 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-25-12** **Date: 28-06-2018**

Sample ID No : 2018-06-25-12 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.21	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-25-12** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward No.8, Kodigehalli.
Agency	:	Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.
Customer Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-12 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2435	2864	57.3	42.7	25-55
4	4.75 mm	1833	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-25-12** **Date: 28-06-2018**

Sample ID No : 2018-06-25-12 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**21.98**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.9**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-25-12** **Date: 28-06-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-2018

Sample ID No : 2018-06-25-12 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-06-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	189	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	154	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-25-12** **Date: 28-06-2018**

Sample ID No : 2018-06-25-12 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.7	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-03-04** **Date: 09/07/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-04 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/07/2018	09/07/2018	151.84 X 150.80 X 149.34	22898	8.354	284.8	12.4	12.5
2	PCC	M15	02/07/2018	09/07/2018	151.36 X 150.96 X 149.67	22849	8.317	291.6	12.8	
3	PCC	M15	02/07/2018	09/07/2018	149.62 X 149.20 X 149.16	22324	8.145	274.8	12.3	

Note:
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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-03-04** **Date: 30/07/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-04 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/07/2018	30/07/2018	150.76 X 149.86 X 151.52	22593	8.102	399.7	17.7	17.6
2	PCC	M15	02/07/2018	30/07/2018	150.68 X 150.98 X 150.50	22749	8.373	407.4	17.9	
3	PCC	M15	02/07/2018	30/07/2018	149.71 X 149.20 X 149.05	22337	8.399	385.6	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-07-11** **Date: 13/07/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-2018

Sample ID No : 2018-07-07-11 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	06/07/2018	13/07/2018	150.42 X 149.84 X 150.80	22540	8.488	409.0	18.1	18.4
2	M20 Concrete	M20	06/07/2018	13/07/2018	150.64 X 150.86 X 151.75	22725	8.486	423.7	18.6	
3	M20 Concrete	M20	06/07/2018	13/07/2018	151.92 X 149.72 X 150.57	22745	8.017	421.0	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-07-11** **Date: 03/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-2018

Sample ID No : 2018-07-07-11 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	06/07/2018	03/08/2018	150.52 X 151.01 X 149.61	22730	8.153	542.1	23.8	23.4
2	M20 Concrete	M20	06/07/2018	03/08/2018	149.10 X 149.61 X 149.26	22307	8.308	506.0	22.7	
3	M20 Concrete	M20	06/07/2018	03/08/2018	150.49 X 150.01 X 150.37	22576	8.539	532.6	23.6	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-07-11** **Date: 13/07/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-2018

Sample ID No : 2018-07-07-11 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	06/07/2018	13/07/2018	152.00 X 150.56 X 151.72	22885	8.303	413.9	18.1	18.3
2	M20 Concrete	M20	06/07/2018	13/07/2018	151.41 X 149.25 X 150.07	22597	8.498	421.3	18.6	
3	M20 Concrete	M20	06/07/2018	13/07/2018	149.05 X 150.02 X 150.95	22361	8.249	403.6	18.0	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-07-11** **Date: 03/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-2018

Sample ID No : 2018-07-07-11 /04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	M20 Concrete	M20	06/07/2018	03/08/2018	151.89 X 149.02 X 150.34	22635	8.298	521.0	23.0	22.9
2	M20 Concrete	M20	06/07/2018	03/08/2018	151.46 X 149.77 X 151.75	22684	8.472	506.3	22.3	
3	M20 Concrete	M20	06/07/2018	03/08/2018	150.17 X 149.41 X 151.82	22437	8.197	523.8	23.3	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-06-25-12** **Date: 30-06-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of parks in Ward No.8, Kodigehalli.

Agency : Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-2018

Sample ID No : 2018-06-25-12 /06

Sample Type /Size : Precast Cover Slab (200mm thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 26/06/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.01	200.05	2.895	17670	275.9	15.6	14.5	18.2
2	Cover Slab-2	150.07	200.17	2.886	17685	278.1	15.7	14.6	18.3
3	Cover Slab-3	150.03	200.12	2.845	17675	277.5	15.7	14.6	18.3

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2018-07-10-06** **Date: 11-07-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward No.8, Kodigehalli.
Agency	:	Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-2018
Sample ID No	:	2018-07-10-06/02
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing	:	10-07-2018

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	292	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	502	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24.5	Min 23%	Satisfactory

Note:
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FOR CIVIL Pro.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID	: **CP-2018-07-10-06**	**Date: 11-07-2018**
Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	: Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	: Development of parks in Ward No.8, Kodigehalli.	
Agency	: Sri.N.Venkatareddy, #92, 7th main road, 4th cross, J.C. Nagara, Mahalaxmipuram(P), Bangalore-560086.	
Customer's Reference	: BBMP/EE/BTP/WO/06/2017-18	
Sourse of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 10-07-2018	
Sample ID No	: 2018-07-10-06/01	
Type of Sample	: M.S Rectangular Pole(65X65X6)mm	
Reference to BIS codes	: IS:1608-2005(RA 2011), IS 1599-2012.	
Date of testing	: 10-07-2018	

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.83	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro
R KARTHIK RECHAN
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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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